ELSEVIER

Molecular Cell Research

Vol. 1450, 1999

BIOCHIMICA ET BIOPHYSICA ACTA
BBA

www.elsevier.com/locate/bba

Cumulative Contents

Information for Contributors vii

Regular papers

Impaired differentiation of endocrine and exocrine cells of the pancreas in transgenic mouse expressing the truncated type II activin receptor
S. Shiozaki, T. Tajima, Y.-Q. Zhang, M. Furukawa, Y. Nakazato and I. Kojima (Japan) 1

Characterization of the myosin light chain kinase from smooth muscle as an actin-binding protein that assembles actin filaments in vitro
K. Hayakawa, T. Okagaki, L.-H. Ye, K. Samizo, S. Higashi-Fujime, T. Takagi and K. Kohama (Japan) 12

Synergistic effect of ubiquitin on lipopolysaccharide-induced TNF-α production in murine macrophage cell line RAW 264.7 cells
T. Nabika, M. Terashima, I. Momose, Y. Hosokawa, N. Nagasue and Y. Tanigawa (Japan) 25

SV40 virus transformation down-regulates endothelin receptor
W.J. Chiou, J. Wang, C.E. Berg and J.R. Wu-Wong (USA) 35

Differential regulation of the expression of nucleotide pyrophosphatases/phosphodiesterases in rat liver
C. Stefan, R. Gijsbers, W. Stalmans and M. Bollen (Belgium) 45

Non-invasive determination of bacterial single cell properties by electrorotation
R. Hölzel (Germany) 53

Effect of nitric oxide on the somatostatinergic system in the rat exocrine pancreas
E. Rodriguez-Martin, G. Muñoz-Acedo, L. Puebla and E. Arilla (Spain) 61

Cloning and characterization of a 22 kDa protein from rat adipocytes: a new member of the reticulon family
N.J. Morris, S.A. Ross, J.M. Neveu, W.S. Lane and G.E. Lienhard (USA) 68

Rapid report

Enzyme kinetic characterization of the smooth muscle myosin phosphorylating system: activation by calcium and calmodulin and possible inhibitory mechanisms of antagonists
A. Sobieszek (Austria) 77

Induction of hydroxyapatite resorptive activity in bone marrow cell populations resistant to bafilomycin A1 by a factor with restricted expression to bone and brain, neurochondrin
Y. Ishizuka, R. Mochizuki, K. Yanai, M. Takatsuka, T. Nonomura, S. Niida, H. Horiguchi, N. Maeda and A. Fukamizu (Japan) 92

Short sequence-paper

PKCν, a new member of the protein kinase C family, composes a fourth subfamily with PKCμ
A. Hayashi, N. Seki, A. Hattori, S. Kozuma and T. Saito (Japan) 99

Corrigenda

Corrigendum to: 'Nucleation and elongation of actin filaments in the presence of high speed supernate from neutrophil lysates: modulating effects of Ca^{2+} and phosphatidylinositol-4,5-bisphosphate'
M.J. DiNubile (USA) 107

Corrigendum to: 'Low-energy laser irradiation affects satellite cell proliferation and differentiation in vitro'
N. Ben-Dov, G. Shefer, A. Irintchev, A. Wernig, U. Oron and O. Halevy (Germany, Israel) 108

Information for Contributors vii

ELSEVIER

Molecular Cell Research

Vol. 1450, 1999

BIOCHIMICA ET BIOPHYSICA ACTA
BBA

www.elsevier.com/locate/bba

Cumulative Contents

Information for Contributors vii

Regular papers

Impaired differentiation of endocrine and exocrine cells of the pancreas in transgenic mouse expressing the truncated type II activin receptor
S. Shiozaki, T. Tajima, Y.-Q. Zhang, M. Furukawa, Y. Nakazato and I. Kojima (Japan) 1

Characterization of the myosin light chain kinase from smooth muscle as an actin-binding protein that assembles actin filaments in vitro
K. Hayakawa, T. Okagaki, L.-H. Ye, K. Samizo, S. Higashi-Fujime, T. Takagi and K. Kohama (Japan) 12

Synergistic effect of ubiquitin on lipopolysaccharide-induced TNF-α production in murine macrophage cell line RAW 264.7 cells
T. Nabika, M. Terashima, I. Momose, Y. Hosokawa, N. Nagasue and Y. Tanigawa (Japan) 25

SV40 virus transformation down-regulates endothelin receptor
W.J. Chiou, J. Wang, C.E. Berg and J.R. Wu-Wong (USA) 35

Differential regulation of the expression of nucleotide pyrophosphatases/phosphodiesterases in rat liver
C. Stefan, R. Gijsbers, W. Stalmans and M. Bollen (Belgium) 45

Non-invasive determination of bacterial single cell properties by electrorotation
R. Hölzel (Germany) 53

Effect of nitric oxide on the somatostatinergic system in the rat exocrine pancreas
E. Rodriguez-Martin, G. Muñoz-Acedo, L. Puebla and E. Arilla (Spain) 61

Cloning and characterization of a 22 kDa protein from rat adipocytes: a new member of the reticulon family
N.J. Morris, S.A. Ross, J.M. Neveu, W.S. Lane and G.E. Lienhard (USA) 68

Rapid report

Enzyme kinetic characterization of the smooth muscle myosin phosphorylating system: activation by calcium and calmodulin and possible inhibitory mechanisms of antagonists
A. Sobieszek (Austria) 77

Induction of hydroxyapatite resorptive activity in bone marrow cell populations resistant to bafilomycin A1 by a factor with restricted expression to bone and brain, neurochondrin
Y. Ishizuka, R. Mochizuki, K. Yanai, M. Takatsuka, T. Nonomura, S. Niida, H. Horiguchi, N. Maeda and A. Fukamizu (Japan) 92

Short sequence-paper

PKCν, a new member of the protein kinase C family, composes a fourth subfamily with PKCμ
A. Hayashi, N. Seki, A. Hattori, S. Kozuma and T. Saito (Japan) 99

Corrigenda

Corrigendum to: 'Nucleation and elongation of actin filaments in the presence of high speed supernate from neutrophil lysates: modulating effects of Ca^{2+} and phosphatidylinositol-4,5-bisphosphate'
M.J. DiNubile (USA) 107

Corrigendum to: 'Low-energy laser irradiation affects satellite cell proliferation and differentiation in vitro'
N. Ben-Dov, G. Shefer, A. Irintchev, A. Wernig, U. Oron and O. Halevy (Germany, Israel) 108

Information for Contributors vii

Regular papers

Protein kinase C α protein expression is necessary for sustained erythropoietin production in human hepatocellular carcinoma (Hep3B) cells exposed to hypoxia
T. Ohigashi, C.S. Mallia, E. McGary, A.B. Scandurro, I. Rondon, J.W. Fisher and B.S. Beckman (USA) 109

High glucose concentrations inhibit glucose phosphorylation, but not glucose transport, in human endothelial cells
F. Viñals, A. Gross, X. Testar, M. Palacín, P. Rösen and A. Zorzano (Germany, Spain) 119

Lipopolysaccharide tolerance in murine peritoneal macrophages induces downregulation of the lipopolysaccharide signal transduction pathway through mitogen-activated protein kinase and nuclear factor-κB cascades, but not lipopolysaccharide-incorporation steps
K. Tominaga, S. Saito, M. Matsuura and M. Nakano (Japan) 130

Identification of a gene, *SOO1*, which complements osmo-sensitivity and defect in in vitro β1,3-glucan synthase activity in *Saccharomyces cerevisiae*
D.-W. Lee, G.-W. Ahn, H.-G. Kang and H.-M. Park (South Korea) 145

Involvement of p38 MAPK and ERK/MAPK pathways in staurosporine-induced production of macrophage inflammatory protein-2 in rat peritoneal neutrophils
Y.-Q. Xiao, K. Someya, H. Morita, K. Takahashi and K. Ohuchi (Japan) 155

The relationship of p53 and stress proteins in response to bleomycin and retinoic acid in the *p53* heterozygous mouse
J.L. Pipkin, W.G. Hinson, S.J. James, J.G. Shaddock, L.E. Lyn-Cook, R.J. Feuers, S.M. Morris, W.H. Tolleson and D.A. Casciano (USA) 164

Information for Contributors *vii*

Reviews

Membrane traffic and the cellular uptake of cholera toxin
W.I. Lencer, T.R. Hirst and R.K. Holmes (UK, USA) 177

Functional roles of S100 proteins, calcium-binding proteins of the EF-hand type
R. Donato (Italy) 191

Regular papers

3′-Azido-3′-deoxythymidine reduces the rate of transferrin receptor endocytosis in K562 cells
A.M. D'Alessandro, G. D'Andrea, L. Di Ciccio, F. Brisdelli, A.C. Rinaldi, A. Bozzi and A. Oratore (Italy) 232

Protein kinase C stimulates PtdIns-4,5-P2-phospholipase C activity
D. Radallah, M. Nogaro and B. Fournier (France) 242

Expressed sequence tag (EST) phenotyping of HT-29 cells: cloning of ser/thr protein kinase EMK1, kinesin KIF3B, and of transcripts that include Alu repeated elements
E. Navarro, L. Espinosa, T. Adell, M. Torà, G. Berrozpe and F.X. Real (Spain) 254

PAR1 activation initiates integrin engagement and outside-in signalling in megakaryoblastic CHRF-288 cells
K. Cichowski, M.J. Orsini and L.F. Brass (USA) 265

Enzyme distributions in subcellular fractions of BHK cells infected with Semliki Forest virus: evidence for a major fraction of sphingomyelin synthase in the *trans*-Golgi network
D. Allan and M.J.M. Obradors (UK) 277

Coupling of thromboxane A_2 receptor isoforms to $G\alpha_{13}$: effects on ligand binding and signalling
K.P. Becker, M. Garnovskaya, T. Gettys and P.V. Halushka (USA) 288

Delayed labelling of brain glutamate after an intra-arterial [^{13}C]glucose bolus: evidence for aerobic metabolism of guinea pig brain glycogen store
J.L. Griffin, C. Rae, G.K. Radda and P.M. Matthews (Australia, UK) 297

Retinoic acid repressed the expression of c-*fos* and c-*jun* and induced apoptosis in regenerating rat liver after partial hepatectomy
A. Ozeki and I. Tsukamoto (Japan) 308

Signal transduction in the vomeronasal organ of garter snakes: ligand–receptor binding-mediated protein phosphorylation
J. Liu, P. Chen, D. Wang and M. Halpern (USA) 320

Transcriptional regulation of a receptor protein tyrosine phosphatase gene *hPTP-J* by PKC-mediated signaling pathways in Jurkat and Molt-4 T lymphoma cells
B. Wang, K. Kishihara, D. Zhang, T. Sakamoto and K. Nomoto (Japan) 331

Enhancement of tyrosyl phosphorylation and protein expression of eps8 by v-Src
M.-C. Maa, J.-R. Lai, R.-W. Lin and T.-H. Leu (Taiwan) 341

Expression and localization of Rab3D in rat parotid gland
R.D. Raffaniello, J. Lin, R. Schwimmer and G.K. Ojakian (USA) 352

Differential expression of the *RTP/Drg1/Ndr1* gene product in proliferating and growth arrested cells
D. Piquemal, D. Joulia, P. Balaguer, A. Basset, J. Marti and T. Commes (France) 364

Correlation between the kinetics of anthracycline uptake and the resistance factor in cancer cells expressing the multidrug resistance protein or the P-glycoprotein
C. Marbeuf-Gueye, D. Ettori, W. Priebe, H. Kozlowski and A. Garnier-Suillerot (France, Poland, USA) 374

Possible mechanism for the decrease of mitochondrial aspartate aminotransferase activity in ischemic and hypoxic rat retinas
S. Endo, S. Ishiguro and M. Tamai (Japan) 385

Expression of CCAAT/enhancer binding protein C/EBPα, β and δ in rat adipose stromal-vascular cells in vitro
K. Lee, D.B. Hausman and R.G. Dean (USA) 397

Nitric oxide can function as either a killer molecule or an antiapoptotic effector in cardiomyocytes
C. Stefanelli, C. Pignatti, B. Tantini, I. Stanić, F. Bonavita, C. Muscari, C. Guarnieri, C. Clo and C.M. Caldarera (Italy) 406

Expression of constitutive nitric oxide synthase in rat and human gastrointestinal tract
H. Fischer, J.C. Becker, P. Boknik, V. Huber, H. Lüss, J. Neumann, W. Schmitz, W. Domschke, J. Stachura and J.W. Konturek (Germany, Poland) 414

Conformational changes induced in troponin I by interaction with troponin T and actin/tropomyosin
T. Tao, B.-J. Gong, Z. Grabarek and J. Gergely (USA) 423

The role of phosphatidylinositol 3-kinase in the regulation of cell response to steroid hormones
M.A. Krasil'nikov, V.A. Shatskaya, A.A. Stavrovskaya, M. Erohina, E.S. Gershtein and V.V. Adler (Russian Federation, USA) 434

Subsection – Signal Transduction

Regular papers

Prostaglandin E_2 regulates macrophage colony stimulating factor secretion by human bone marrow stromal cells
A. Besse, F. Trimoreau, J.L. Faucher, V. Praloran and Y. Denizot (France) 444

Molecular cloning and characterization of the chicken pro-opiomelanocortin (POMC) gene
S. Takeuchi, K. Teshigawara and S. Takahashi (Japan) 452

Glyoxalase I from *Brassica juncea* is a calmodulin stimulated protein
R. Deswal and S.K. Sopory (India) 460

Perinatal PTX-sensitive G-protein expression and regulation of conductive $^{22}Na^+$ transport in lung apical membrane vesicles
L. Gambling, R.E. Olver and D.L. Baines (UK) 468

Erratum

Erratum to: "Sequence and expression of a cDNA encoding the red seabream androgen receptor"
K. Touhata, M. Kinoshita, Y. Tokuda, H. Toyohara, M. Sakaguchi, Y. Yokoyama and S. Yamashita (Japan) 480

Short sequence-paper

Sequence and expression of a cDNA encoding the red seabream androgen receptor
K. Touhata, M. Kinoshita, Y. Tokuda, H. Toyohara, M. Sakaguchi, Y. Yokoyama and S. Yamashita (Japan) 481

Cumulative Contents, Vol. 1450 486

Author Index 489